## Shanghai Sinble Electronics Co.,Ltd

### MB1S~MB10S

### Single Phase 0.5Amp Glass passivated Bridge Rectifiers

#### Features

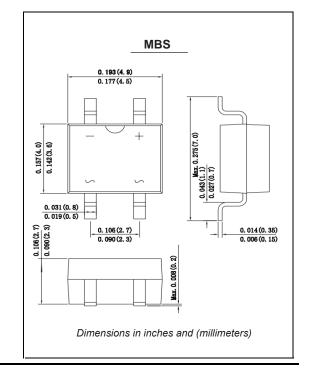
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

#### **Mechanical Data**

Case: Molded plastic body Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Polarity symbol marking on body

Mounting Position: Any

Weight: 0.008 ounce, 0.22 grams



### **Maximum Ratings And Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	UNITS
Maximum repetitive peak reverse voltage	Vrrm	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	Vrms	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	Vdc	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=30°C On glass-epoxy P.C.B (Note 1) On aluminum substrate (Note 2)	l(av)	0.5 0.8						Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30.0						Amps
Maximum instantaneous forward voltage at 0.5A	Vf	1.0						Volts
Maximum DC reverse currentT = 25°Cat rated DC blocking voltageTa=125°C	lr	5.0 500						uA
Typical junction capacitance (Note 3)	Сэ	15.0						pF
Typical thermal resistance	Rqja	75.0						°C/W
Operating junction and storage temperature range	Тј,Тѕтс	-50 to +155						°C

Note: 1. Mounted on glass epoxy PC board with 1.3\*1.3mm solder pad

2.Mounted on aluninum substrate PC board with 1.3\*1.3mm solder pad

3.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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# Ratings And Characteristic Curves MB1S THRU MB10S

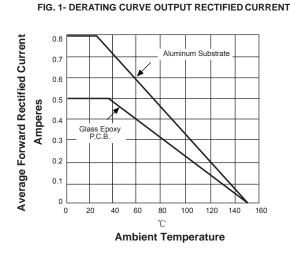


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

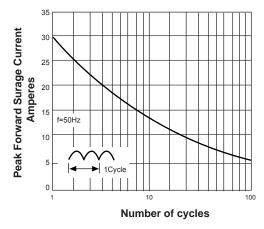
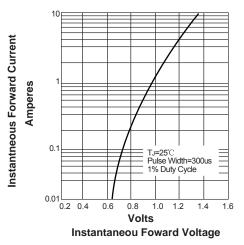


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS





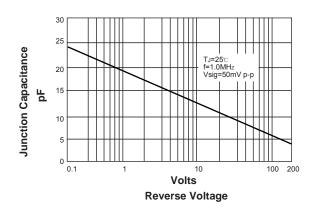
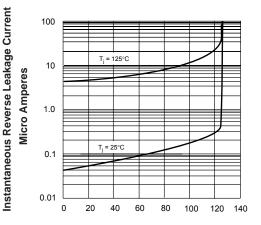


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage(%)